## DESCRIPTION OF SOME NEW GENERA OF MOLLUSCA.

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The following diagnoses of new genera are published in advance of a more extended paper on West Indian mollusca, now in proeess of preparation. The amomt of material embodied in that paper is so great, that cireumstanees will not permit me to illustrate the numerous new speeies, and I arail myself of the present means of explaining, by figures, the generie deseriptions, whieh are not always clearly intelligible from verbal descriptions.

## PTEROPODA.

## Fam. LIMACINIDE.

Planorbella, Gabb, pl. 11, fig. 2.
Shell minute, vitreous, sinistral, apex sunken as in Planorbis.
This genus, from its sinistral character, is evidently allied to Limacina, from whieh its planorbiform mode of growth distinetly separates it. The type P.imitans, were it dextral, might be misLaken for a very young specimen of Planorbis trivolvus, so nearly does it copy the form of that shell.

## GASTEROPODA.

## MURICIDE.

Metulella, Gabb, pl. 11, fig. 3.
Shell fusiform, eanal more or less produeed; imer lip covered with a thiekened plate, continuous posteriorly with the outer lip. Interior of both inner and outer lips strongly dentienlated or transversely striated. Surface eaneellated or costate.

This genus is more distinetly fusiform than Mehula, and has the additional charaeter that the inner lip is covered throughout its length by a series of prominent denticles, not neeessarily corresponding with the eovered-up surface ribs.

Type M. fusiformis.

## TURRID压.

Glyphostoma, Gabb, pl. 11. fig. 4.
Shell like Defrancia, but with the inner lip strongly cranulated or transversely rugose.

This genns has the same relation to Defrancia that Metulella bears to Metula. The iuner lip of $G$. dentifera, the only known species, is thickened, and is crossed by a number of prominences, intermediate in character between teeth and transverse folds. At the same time, they are wholly unlike the one fold of Borsonia, or the two or three of Cordiera. A better comparison would be with the tecth of Cyprea.

## BUCCINIDe.

Ectracheliza, Gabb, pl. 9. fig. 2.
Shell acuminately oblong, spire elevated (always truncated in the only species known). Surface compressed near the suture. Inner lip encrusted ; columella simous, short ; outer lip produced in advance. This genus secms to be allied in many of its characters to Cominella and Truncaria. Like them, it is compressed adjoining the suture. It shows no trace of umbilicus, as scen in most of the Buccinidæ, but its most distinctive character is in its obliquely sub-truncated columalla, which does not reach to the anterior end of the shell. It differs from Truncaria in having no fold on the columella and in the outer lip not being emarginate posteriorly. In E.truncata, the apex is truncated at, all ages, shells of less than half an inch long having lost several of their apical whorls, and it is rare to find more than two entire volutions in any specimen.

## OLIVID压.

Plochelea, Gabb, pl. 11, fig. $\overline{\text { o }}$
Shell olive shaped, suture nearly obsolete, as in Ancillaria; aperture linear, deeply and obliquely notched at the base, as in Debaphus. Outer lip thickencd internally, in the middle; inner lip incrusted and having several transverse folds, of which the upper are the smallest; columnclla strongly recurved at the basc.

From its form and general appearance, I am inclined to consider this genus as belonging to the Olividre, although its details of character are strikingly like that of Dibaphus. It seems to form, iu a manuer, a conncting link between the true Olives and the ${ }^{6}$ genus Monoptygma Lea (not of Adams, Sowerly, etc.) The folds are placed in a reverse order to those of Milra.

I have before me specimens of Dibaphus edentulus and Mauritia Barclayi, the typical species of their respective genera. There is no possible room for doubt that $D$.edentulus is at least sometimes
supplied with mitra-like folds. My specimen has seven or eight, well developed. Consequently Mauritia is synonymous with Dibaphus; and it scems to me that the genus should be placed rather with the Mitres than with the Cones. The differences between the present genus and Dibaphus are sinall, and it is possible that the two should be placed side by side, although I strongly suspect that the resemblances are those of imitation rather than of true relationship.

Type $P$. crassilabra.

## EULIMIDE.

Iopsis, Gabb, pl. 11. fig. 6.
Shell eulimoid, polished, spire clevated, suture nearly obsolete, apex dextral ; no umbilicus; columella slightly twisted and produced into a short lip-like canal, not emarginated.

The ivory-like structure, obsolete suture, and whole general appearance of this little shell prove its close relationship to Eulima, while its faintly twisted columella, cxtended to such a degree as to produce a short though not notched canal, distinguishes it from the other gencra of the family. It rescmbles in form a miniature Io, from which circumstance the name is derived. I have noticed in some species of true Eulima a slight tendency to expansion of the lip in advance, on the columellar margin.

1. fusiformis.

## STROMAIDE.

Orthaulax, Gabb, pl. 9, figs. 3, 4.
Shell rounded fusiform, canal moderate, straight and regularly tapering ; adult shell enveloped over the whole spire by an extension of the inner lip ; posterior canal fissure like, formed by the continued edge of the outer lip and running directly to the apex. Outer lip apparently sharp and simple ; anterior notch ololique and broad.

The discovery of this genus fills an important break in the Rostellarias, uniting the true genus Rostellaria, with Conrad's fossil from Calyptraphorus. Unlike both of these gencra the canal is not - styliform, but robust and comparatively slort, and its terminal notel is formed by an almost rectangular truncation of the anterior part of the outer lip. Like Rostellaria it has a straight postcrior canal, prolonged, however, further than is common in that genus. The canal is similar in structure to that of Calyptraphorus, being formed by a squamose plate, but in the latter genus it curves over
backwards, behind the spire, whieh it aseends to about half its height, and then bends down to near the suture of the body whorl. Unlike the first, and like the second, of its congeners, it has the whole spire enveloped in a plate, which might more probably be described as a posterior extension of the body whorl, earrying the sutnre to the extreme apex. The lines of growth ran from the top of the spire to the anterior end of the shell. It earries none of the tubereles seen in Calyptraphorus and Tessarolax, and seems, unlike most of the other genera of the family, to have liad a simple outer lip, neither thickened, digitate, nor notehed.
O. inornatus.

Dolophanes, Gabb, pl. 11, fig. 7.
Shell elongate oval, spire elevated; with a minute, imperforate umbilieus; aperture semi-oval, inner lip acute, sinuous; anterior end of the aperture terminating in a short, not emarginate eanal.

The first impression produced on looking at this little shell, is that it is probably a Melania. It is however undoubtedly marime, and it has a grouping of eharacters which ally it so elosely to Struthiolaria, that I am convineed that it is a nearly related genus. Its spire is very like tlat of many of the species of the Strombidx, and, in the details of its month, it differs only from Struthiolaria in having a thinly enerusted inner lip, an aeute onter lip and an obsolete umbilicus, instead of the thickened margins and no umbilieus of that genus.
D. melanoides.

## ACTEONIDEE.

Acteonidea, Gabb, pl. 11, fig. 8, 8 a.
Shell oval, elongate; aperture narrow, outer lip simple; colnmella slightly enerusted, bearing one large transverse fold in the middle and truneated in advance. Ormamented by revolving ribs.

This genus is an Actron exeept that it has a single large fold on the middle of the inner lip, and the columella is truneated as in Achatina.
A. oryza, Gabb.

## BULLIDEE.

Cylichnella, Gabb, pl. 10, fig. 2.
Shell sub-eylindrical, spire sunken; mouth narrow behind, widened or advance; columella with two folds.

This genus has the external form of Cylichna, but it has two distinct folds. The upper one is sharp and prominent like that of

Actron, while the lower is more oblique and winds around the columella more like that of Cylichna.
C. bidentata. d'Orb.

Bulla bidentata, d'Orb. La Sagra's Cuba, pl. fig. 13, 16.
Utriculus bidentatus, Chemn. Mar. Coneh., vol. 1, p. 388.

## ACEPHALA. <br> CORBULID庣.

Botmrocorbula, Gabb, pl. 10, fig. 3, 3 a.
Shell like Corbula in every respeet, exeept that it has a deep lunular pit under the beaks penetrating and almost passing through the linge plate.

I have carefully examined almost all of the living and many fossil speeies of Corbula, and ean find in none the slightest trace or rudiment of a lunuli; while this shell has it deeper than I have even seen in any other form, except in Here of the Lucinus.
B. viminca, Guppy, sp.

Corbula viminca, Guppy, Quart. Journ. Geol. Soc. Lond., v. 22, p. 293, pl. 18, fig. 11.

## ANATINIDE.

Ne.eromya, Gabb, pl. 10, fiy. 4, 4 a, 4 b.
Shell thin, translueent, in shape approaehing Pholadomya, ends closed; hinge with a prominent tooth in the right valve, articulating behind a smaller similar one in the left valve; an anterior and posterior lateral tooth in each valve. Mantle margin without sinus.

This genus, in its thin charaeter and minute linges, is elosely allied to Pholadomya, Thetis, and Vexra, but differs from all in details of the hinge. Nerera has nocardinal tooth, but, in its place, a eartilage pit in each valve. It las a single posterior tooth, while this genus has the anterior equally well developed. In having eorresponding teeth in both valves, it differs from Thetis, while its well specialized linge and its closed ends distinguish it from Pholadomya.
N. quadrata, Gabb.

